Gray, Res. Div.
5/17/49 - Gift

DESIGN

# TRUSCON RESIDENTIAL STEEL WINDOWS

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DESIGN DIV.

## Double-Hung and Casement

.P.3

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TYPES AND SIZES
SPECIFICATIONS
INSTALLATION DETAILS

REVISED MARCH, 1949

No. D-140

TRUSCON STEEL COMPANY • YOUNGSTOWN 1, OHIO

SALES OFFICES AND WAREHOUSES IN PRINCIPAL CITIES

SUBSIDIARY OF REPUBLIC STEEL CORPORATION

# TRUSCON RESIDENTIAL DOUBLE-HUNG WINDOWS — SERIES 138

**(Specifications Subject to Availability of Materials)**

## SPECIFICATIONS

**1. Specify** — Double-Hung Steel Windows, Series 138 as manufactured by Truscon Steel Company of Youngstown, Ohio.

**2. Materials** — New billet electro-galvanized strip steel of 18 gauge throughout except sill member. Sill member of frame to be 16 gauge.

**3. Construction** — Frame members shall be one piece, cold rolled, and shall run continuous from head to sill and from jamb to jamb. Frame members shall provide a rebate for exterior screens and storm sash. Windbreak flange at head shall be set back ¼″ deeper than at jambs to provide space for lintel angle without chipping brick. Sash members shall be of one piece cold rolled tubular shape not less than ⅞″ deep. Corners of frames and of sash shall be telescoped and welded. Frames shall be prepared for standard storm sash and screens, and shall have two drilled holes (1¼″ O.C. for No. 8 self tapping screws) in each upper inside corner for shade brackets. Muntins when required shall be hot rolled tees, welded to sash members and with welded cross joints.

**4. Weatherstripping** — shall be stainless steel and applied to sash at head sill and meeting rail, and to frame at jambs. Weathering or rubbing blocks shall be attached to the parting strip opposite meeting rail ends.

**5. Hardware** — Each sash shall be suspended by tapes of Enduro stainless steel from two enclosed and removable motor-spring type spring balances designed to properly balance sash when glazed with double strength glass. Balances to be guaranteed against imperfect workmanship and material. Each lower sash shall have two lifts, and a sweep lock; each upper sash shall have a pull-down handle and sweep lock strike. Hardware shall be of steel, rust-proofed, attached and prime painted at factory. (Bronze lifts and sweep lock will be furnished when so specified and at extra cost.) A bumper shall be attached to frame at head to cushion travel limit of lower sash.

**6. Mullions** — Mullions for joining two or more single units in the same opening shall be in accordance with manufacturers' standards.

**7. Shop Finish** — Windows shall be Bonderized and finished with a dip coat of gray Bakelite (phenol-resin) paint, oven-baked for one hour at 300 degrees Fahrenheit.

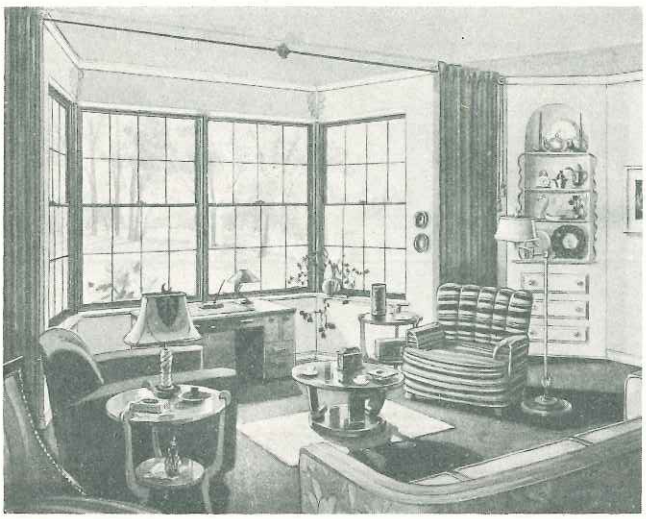
**8. Screens** — Screens shall be either full top hung or fixed half screens, as specified, and shall be set in the rebate provided in window frame. Screens shall have 18x14 mesh bronze screen cloth and rewirable steel frames primed with one coat of enamel, baked on. Horizontal braces shall be furnished at center of full top hung screens for windows over 3′ 9½″ in height. Screen fittings shall be of a design permitting screens to be installed or removed from within the building.

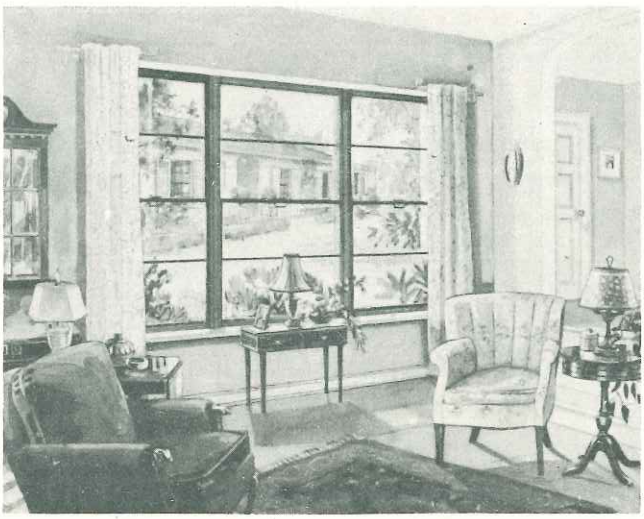
**9. Erection** — Windows shall be set plumb and true in opening, securely wedged and held in alignment during construction. The spreader clips at ends of meeting rail shall not be removed until windows are ready for glazing.

**10. Glazing** — Windows shall be designed for glazing from the outside with spring wire glazing clips and steel window putty. Glass, putty, clips and glazing by others.

**11. Field Painting** — See painting specifications.

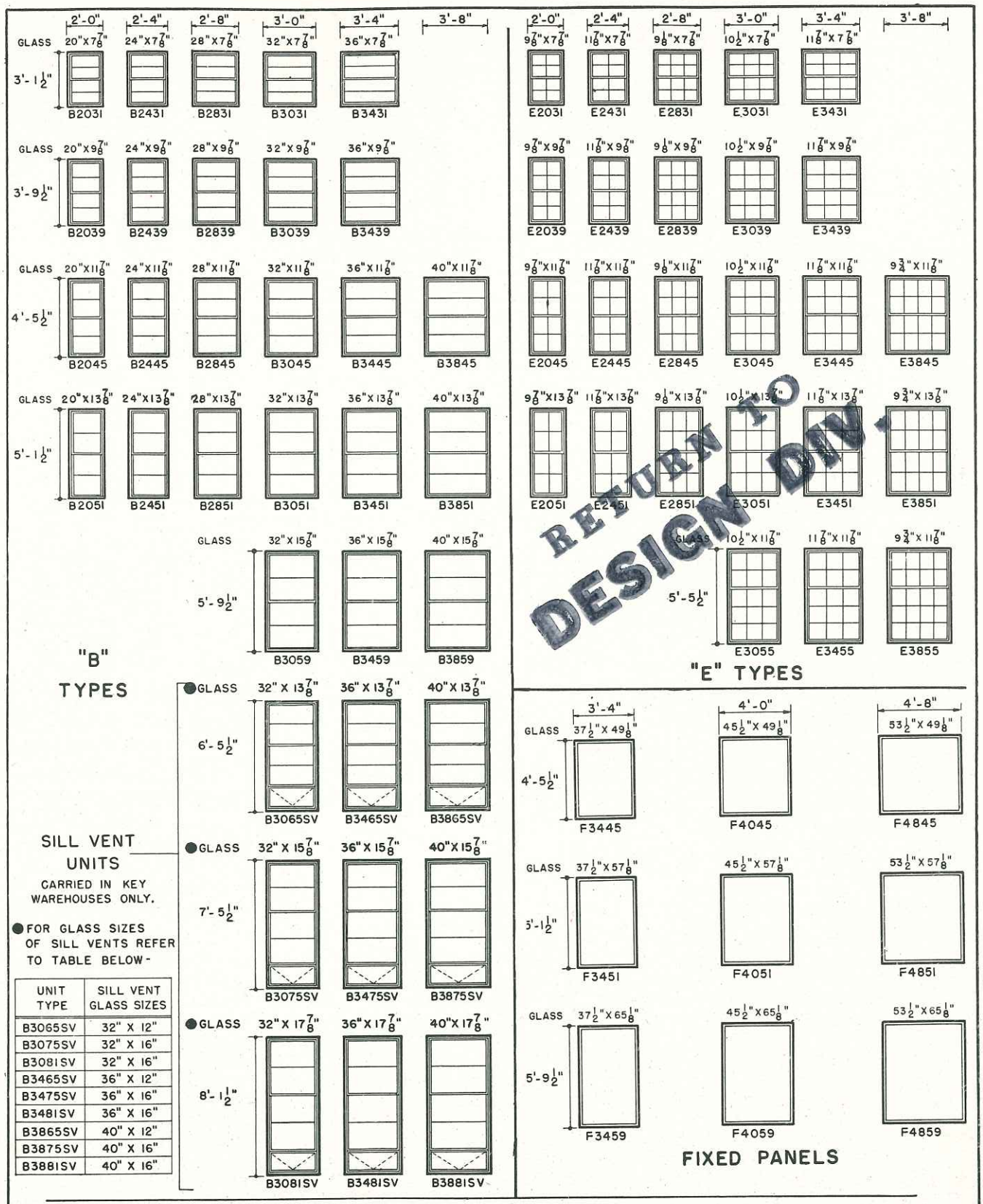
**12. Caulking** — Joint between frame and masonry wall, or adjoining construction and where indicated at mullions, shall be carefully caulked by caulking contractor. Mastic shall be applied where indicated between mullions by window erector.





# TRUSCON RESIDENTIAL DOUBLE-HUNG WINDOWS — SERIES 138

## TYPES AND SIZES




| UNIT TYPE | SILL VENT GLASS SIZES |
|---|---|
| B3065SV | 32" X 12" |
| B3075SV | 32" X 16" |
| B3081SV | 32" X 16" |
| B3465SV | 36" X 12" |
| B3475SV | 36" X 16" |
| B3481SV | 36" X 16" |
| B3865SV | 40" X 12" |
| B3875SV | 40" X 16" |
| B3881SV | 40" X 16" |

DIMENSIONS SHOWN ARE WINDOW DIMENSIONS.
STUD OPENING DIMENSIONS EQUAL WINDOW DIMENSION PLUS 1½" IN WIDTH AND 2¼" IN HEIGHT

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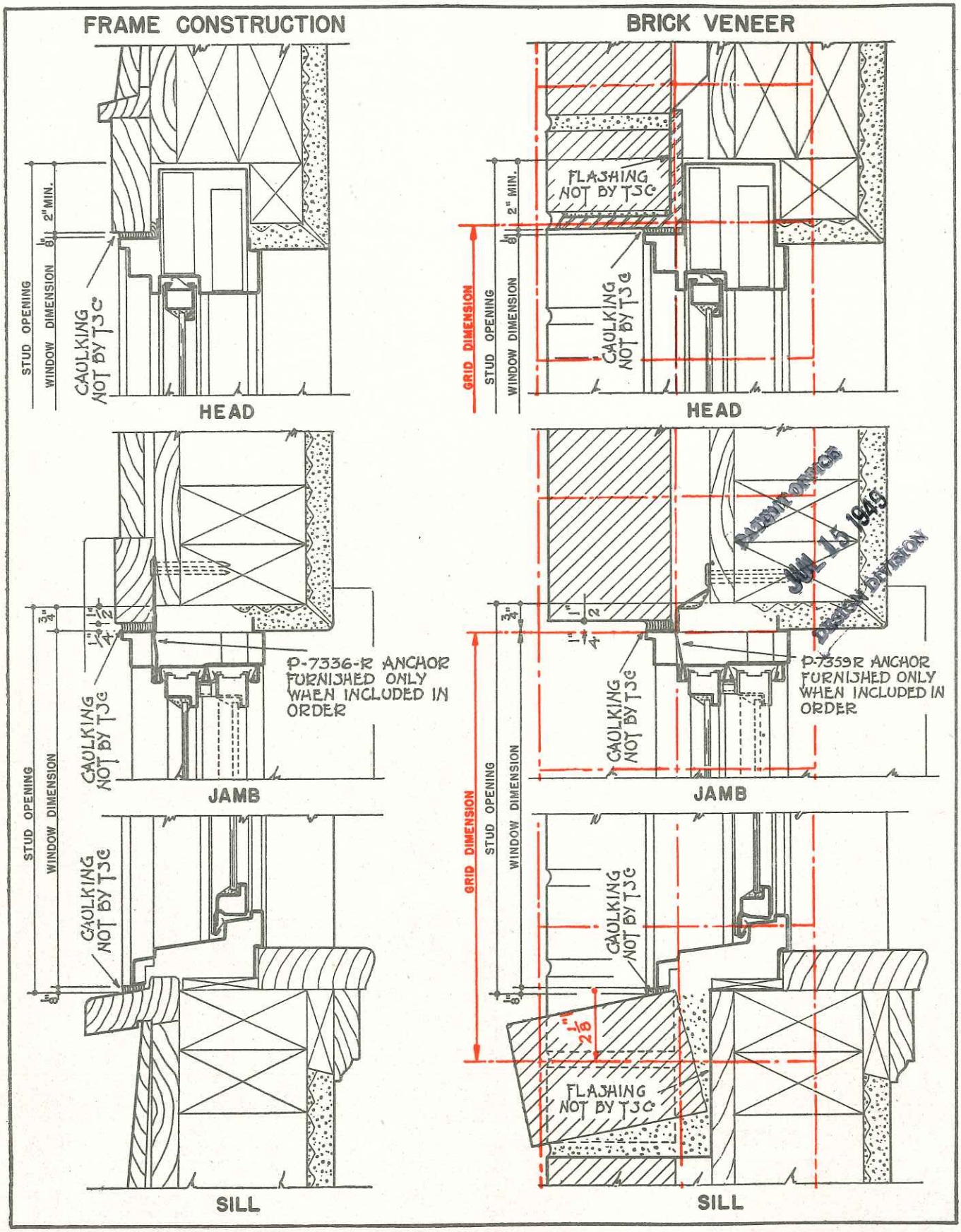
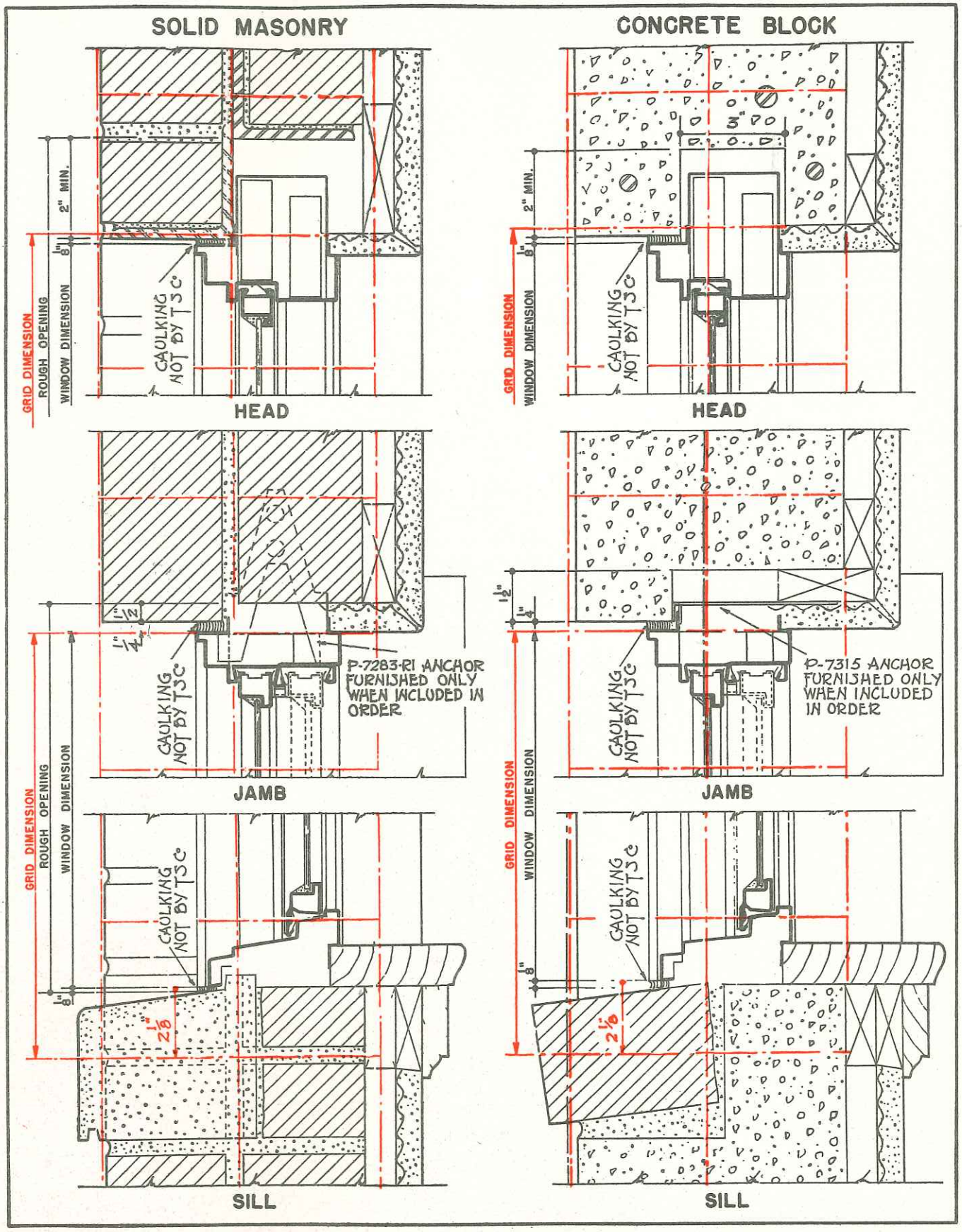
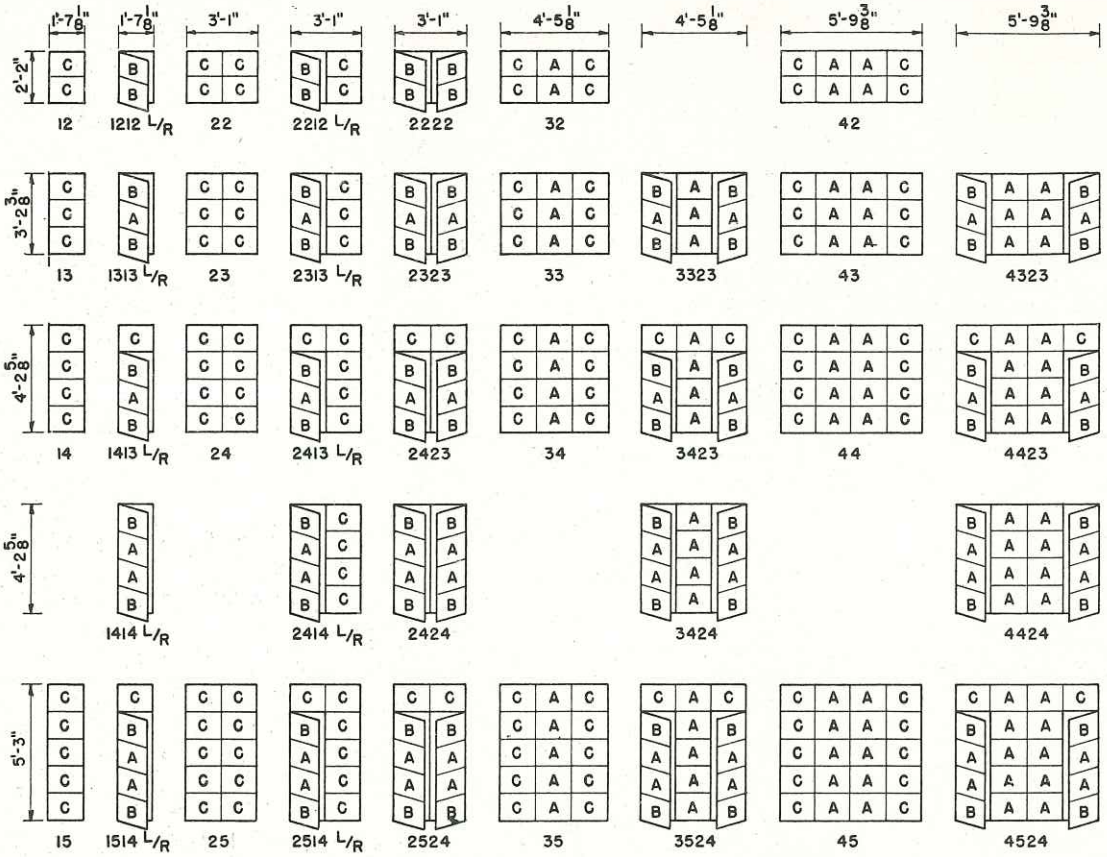
# TRUSCON RESIDENTIAL DOUBLE-HUNG WINDOWS — SERIES 138
## INSTALLATION DETAILS



# TRUSCON DOUBLE-HUNG WINDOWS — SERIES 138
## INSTALLATION DETAILS



# TRUSCON RESIDENCE CASEMENTS — SERIES 5
## TYPES AND SIZES

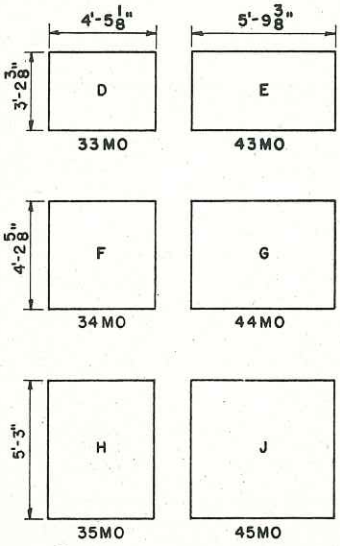


33111
BULLSEYE

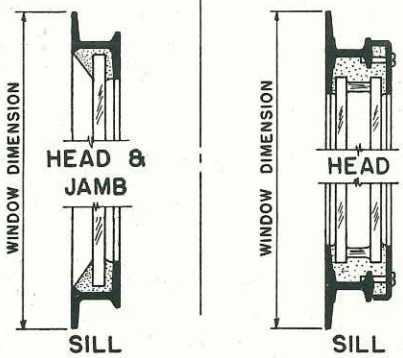
| TABLE OF GLASS SIZES | |
|---|---|
| MK | SIZE |
| A | 16 " X 12 " |
| B | 16 ' " X 11 5/16 " |
| C | 17 3/8 " X 12 " |
| D | 51 1/8 " X 36 5/16 " |
| E | 67 3/8 " X 36 5/16 " |
| F | 51 1/8 " X 48 5/8 " |
| G | 67 3/8 " X 48 5/8 " |
| H | 51 1/8 " X 60 15/16 " |
| J | 67 3/8 " X 60 15/16 " |
| K | 50 3/8 " X 47 7/8 " |
| L | 66 5/8 " X 47 7/8 " |
| M | 50 3/8 " X 60 1/4 " |
| N | 66 5/8 " X 60 1/4 " |

## PICTURE WINDOW UNITS

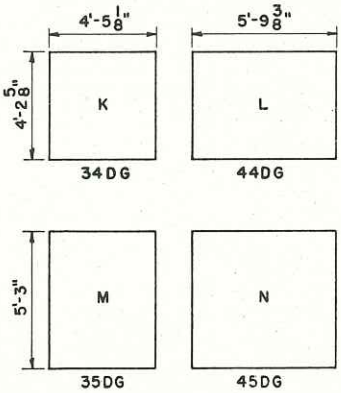
OUTSIDE PUTTY GLAZED TYPES FOR USE WITH SINGLE GLASS ⊛



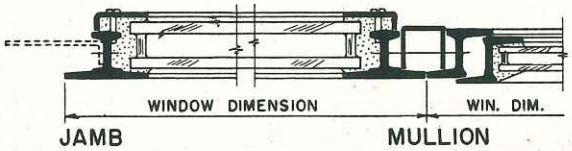

⊛ MAXIMUM GLASS THICKNESS - 1/4".




INSIDE GLAZED TYPES FOR USE WITH STOCK SIZE DOUBLE GLASS

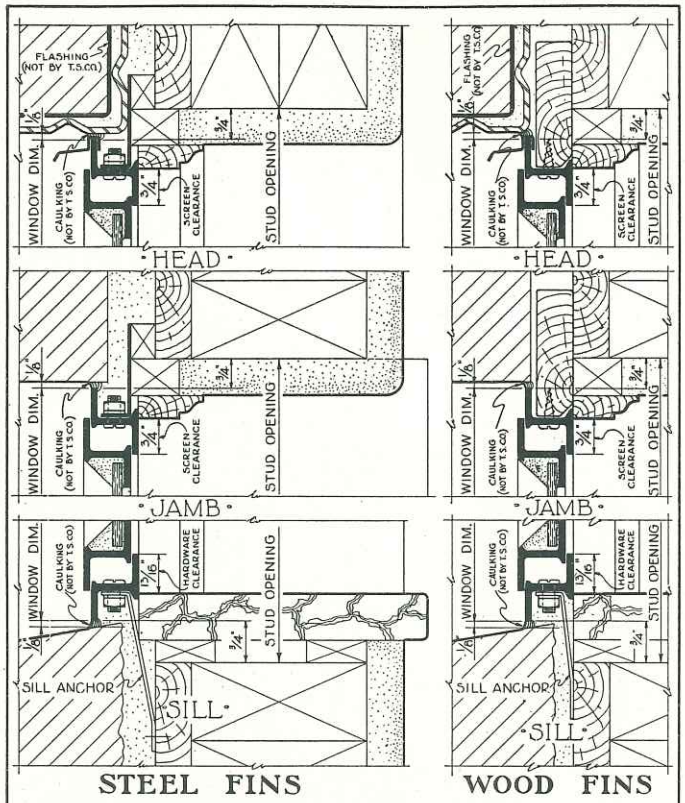



- PICTURE WINDOW UNITS SHIPPED KNOCKED DOWN FOR FIELD ASSEMBLY.

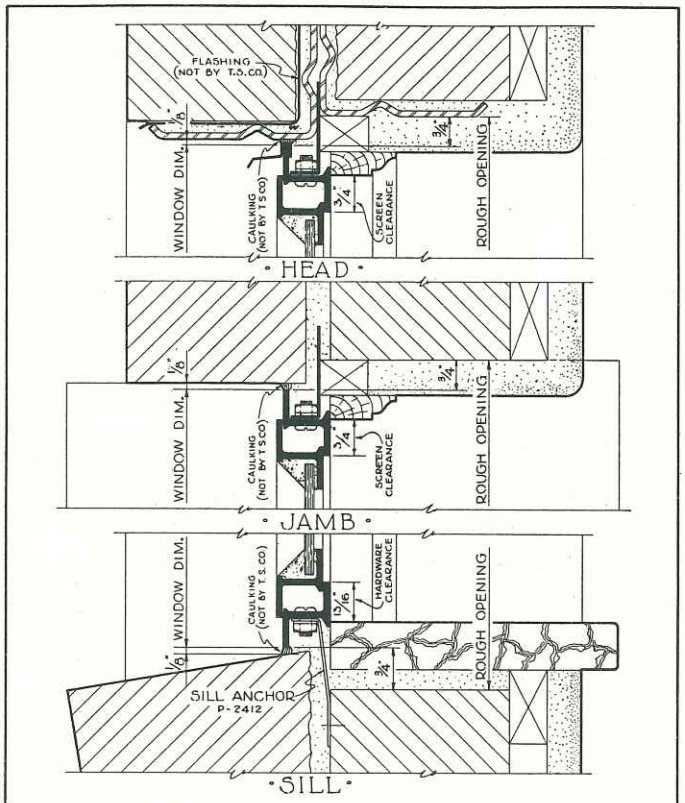



- DIMENSIONS SHOWN ARE WINDOW DIMENSIONS.
- ELEVATIONS ARE SHOWN AS VIEWED FROM THE OUTSIDE. HAND OF CASEMENTS IS DETERMINED BY LOCATION OF HINGES AS VIEWED FROM THE OUTSIDE.
- FOR STUD OPENING OR ROUGH OPENING SIZES USE WINDOW DIMENSIONS SHOWN AND ADD 1 1/2" IN WIDTH AND 1 1/2" IN HEIGHT.

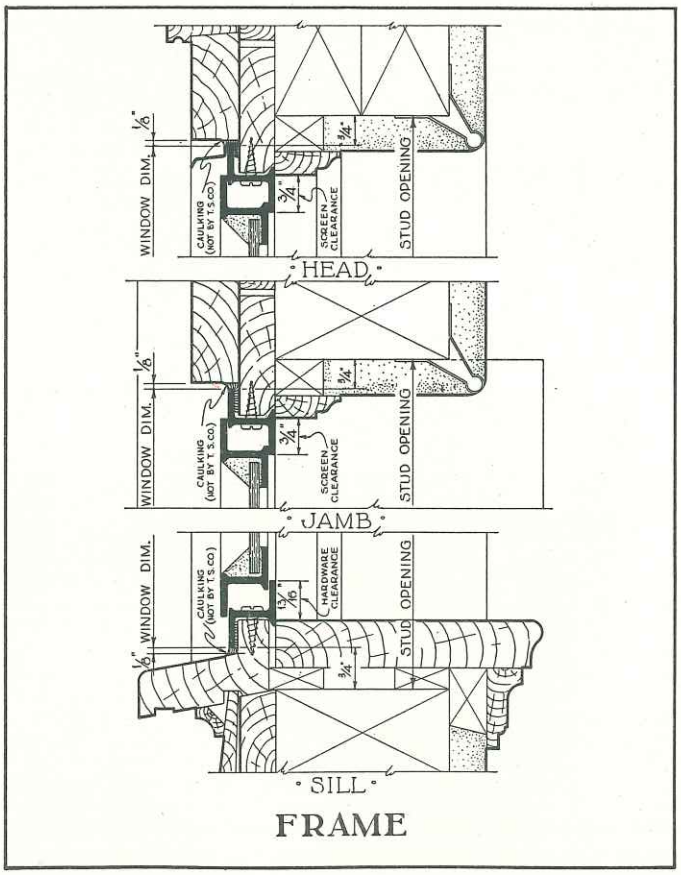
# TRUSCON RESIDENCE CASEMENTS — SERIES 5
## INSTALLATION DETAILS



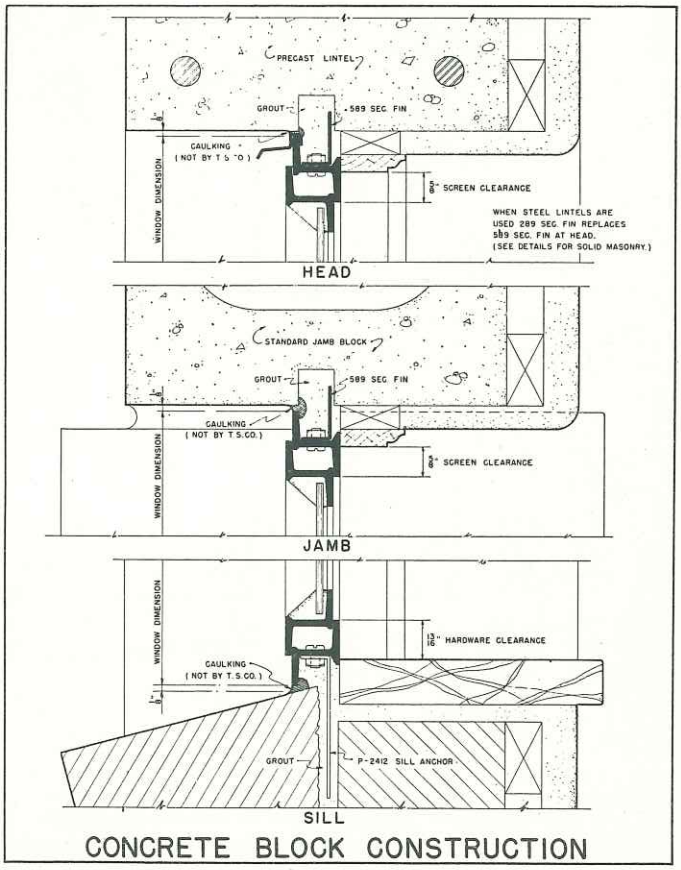

BRICK VENEER




SOLID MASONRY




FRAME




CONCRETE BLOCK CONSTRUCTION

# TRUSCON RESIDENCE CASEMENTS — SERIES 5

## SPECIFICATIONS

**1. Specify** — Residence Steel Casements, as manufactured by Truscon Steel Company of Youngstown, Ohio.

**2. Material** — Window members shall be low carbon, new billet hot rolled steel. Frame and vent sections shall be zee bars not less than 1" in depth nor ⅛" in thickness. All members shall be cold rolled before fabrication to remove scale, to form all shapes to exact scheduled size and straighten them true to line.

**3. Construction** — Corners of frames and vents shall be mitered and electrically butt welded with exposed surfaces ground smooth. Muntins shall be attached to frame or vent members by means of mortise and tenon joints and air hammer riveted. Muntin intersections shall be of interlocking design with flush interior surfaces. Hinges shall be welded to frame and to vent members. Hinges shall have bronze to steel contact surfaces throughout. Hinge pins to be steel, rust-proofed. Double, full contact weathering shall be provided between vents and frames around the entire perimeter of each vent.

**4. Hardware** — Hardware for Roto Type Casements. Hardware shall have bronze lacquer finish, and shall control the vent independently of the screen. Each vent shall have a locking handle and a worm drive operator. Locking handle shall engage with a concealed keeper attached to vent and shall have cam action. (Locking handles and operators are packed and shipped loose to prevent damage.) Operator guide shall be rustproofed. Removable stool gauges shall be shipped attached to operator provisions to insure proper locating of stool.

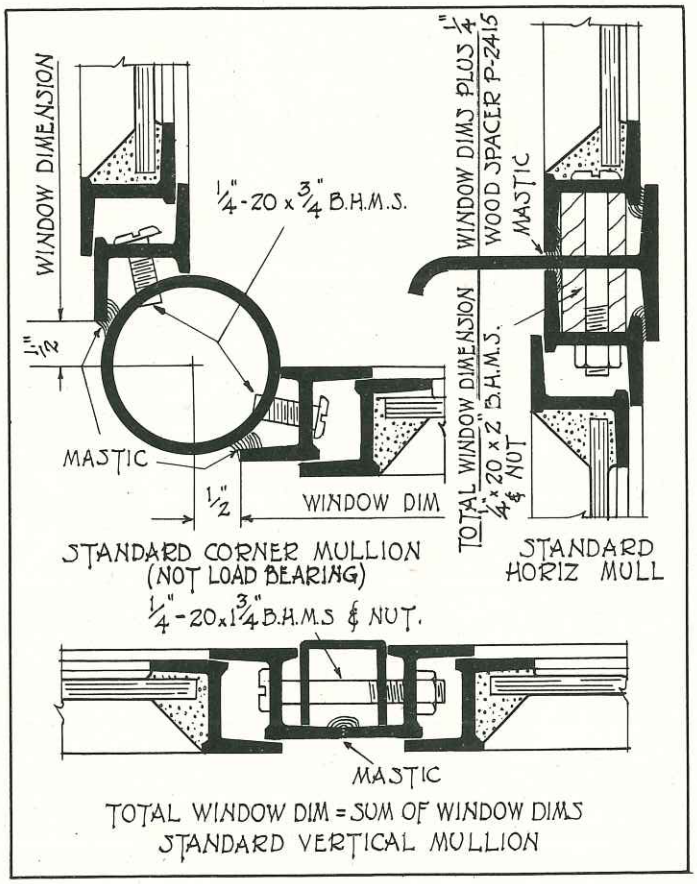
**5. Screens** — Screens shall fit closely and neatly all around and shall be easily removable. Screen frames shall be of formed steel and shall be given one shop coat of gray Bakelite enamel, oven-baked. Frames shall be rewirable. Screen cloth shall be of 16 mesh commercial bronze wire.

(a) Screens for Roto Casements — a separate fixed type screen shall be furnished for each vent.

**6. Shop Finish** — Windows shall be bonderized and finished with a dip coat of gray Bakelite paint, oven-baked for one hour at 300 degrees Fahrenheit.

**7. Adjustment** — After setting and just before glazing, all vents shall be carefully adjusted to insure proper alignment of vent and continuous weathering contacts.

**8. Glazing** — Windows shall be designed for glazing from the outside with spring wire glazing clips and steel casement putty, furnished by others.

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**TRUSCON STEEL COMPANY, YOUNGSTOWN 1, OHIO**
**SUBSIDIARY OF REPUBLIC STEEL CORPORATION**

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